## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION                  | INITIALS | ID NO.   | DATE     |  |  |  |  |  |
|---------------------------|----------|----------|----------|--|--|--|--|--|
|                           | <i>-</i> | <u> </u> | 43.6     |  |  |  |  |  |
| FEE DETERMINATION         | 7xo      |          | 102F17-0 |  |  |  |  |  |
| O.I.P.E. CLASSIFIER       |          |          | 3/1      |  |  |  |  |  |
| FORMALITY REVIEW          | ns_      | 50906    | 03/19/9  |  |  |  |  |  |
| RESPONSE FORMALITY REVIEW |          |          |          |  |  |  |  |  |
|                           |          |          |          |  |  |  |  |  |

## INDEX OF CLAIMS

| , | Rejected                   | N | Non-elected  |
|---|----------------------------|---|--------------|
| = | Allowed                    | 1 | Interference |
| _ | (Through numeral) Canceled | Α | Appeal       |
| ÷ | Restricted                 | 0 | Objected     |

| <u></u>  | alm      | Г                                      | Date           |          |    |               |  |    |          |        |  | 1  | <u></u>     | Zaim Date Claim Date |           |   |   |          |          |   |          |             |          |          |       |          |         |  |         |          |              |                  |    |        |         |         |
|----------|----------|--|----------------|----------|----|---------------|--|----|----------|--------|--|----|-------------|----------------------|-----------|---|---|----------|----------|---|----------|-------------|----------|----------|-------|----------|---------|--|---------|----------|--------------|------------------|----|--------|---------|---------|
| _        | T _      | $\vdash$                               | г              | Г        | Г  | Ľ             | Ť  | Т  | Т        | Т      | Т  | 1  | <del></del> |                      |           |   |   |          |          |   |          | Н           | ř        | т —      | Uate  |          |         |  |         |          |              |                  |    |        |         |         |
| 星        | Original |  |                |          |    |               |  |    |          |        |  |    | Final       | Original             |           |   |   |          |          |   |          |             |          |          | Final | Original |         |  |         |          |              |                  |    |        |         |         |
| Г        | U        | J                                      |                |          |    |               |  |    |          | Г      | Π  | ]  | Γ           | 51                   |           |   |   |          |          |   |          |             |          |          |       | 101      |         |  |         |          |              | Г                | Γ  | Π      | Π       | Г       |
|          | 2        |  |                |          |    |               |  | Г. | L        | Γ      |  | ]  |             | 52                   |           |   |   |          |          |   |          |             |          |          |       | 102      |         |  |         |          | Г            | Г                | Π  | П      | Π       | Π       |
| Г        | 3        |  |                |          |    |               | Ī  |    |          | 1      | Г  | ]  | Г           | 53                   |           |   |   |          |          |   |          |             |          |          |       | 103      |         |  | П       |          | П            | Г                | Γ  | Г      | Г       | Т       |
|          | 4        |  |                |          |    |               |  |    |          |        |  | ]  |             | 54                   |           |   |   |          | П        |   |          |             |          |          |       | 104      |         |  |         |          |              |                  |    |        |         |         |
|          | 5        |  |                |          |    |               |  |    | $\Box$   |        |  | ]  |             | 55                   |           |   |   |          |          |   |          |             |          |          |       | 105      |         |  |         |          |              |                  |    |        | Π       | $\prod$ |
| ٠.       | 6        |  |                |          |    |               |  |    |          | L      |  | ]  |             | 56                   |           |   |   |          |          |   |          |             |          |          |       | 106      |         |  |         | L        |              |                  | Г  | П      | Г       | Г       |
|          | 7,       |  |                | Ì        |    |               | L  |    |          |        |  | ]  |             | 57                   |           |   |   |          |          |   |          |             |          |          |       | 107      |         |  | L       |          |              |                  | Ι  |        |         | $\Box$  |
|          | 0        | Ė                                      |                | Ĺ        |    |               | L  | L. | L        |        | <u> </u>   | ]  |             | 58                   |           |   |   |          |          |   |          |             |          | Ш        | ┖     | 108      |         |  |         | 丄        | L            |                  |    | L      |         | L       |
| 3        | 9<br>10  |  |                | Ė        |    |               |  | Ŀ  | L        | L      | $\Box$   |    |             | 59                   |           |   |   |          |          |   | Ш        |             |          |          |       | 109      |         |  | L       |          | L            |                  |    |        |         | $\Box$  |
| Ę,       |          |  |                |          |    |               |  |    | L        | L      |  |    |             | 8                    |           | • |   |          |          |   |          |             |          | Ш        |       | 110      |         |  |         | L        |              | ·                |    | Ц      | L       |         |
|          | 11       |  | -              |          |    |               |  |    |          |        |  |    |             | 61                   |           |   |   |          |          |   |          |             |          |          |       | 111      |         |  | L       |          |              |                  |    |        | L       |         |
| 2        | 12       | 1,                                     |                |          | Ŀ  |               | Ŀ  |    |          | L      |  |    |             | 62                   |           |   |   |          |          |   |          |             | ·        | П        |       | 112      |         |  | L       | <u> </u> |              |                  |    |        | L       | L       |
| 22       | 13       | <b>)</b>                               |                | 3        |    | $\overline{}$ |  |    | Ŀ        | Ĺ      |  |    |             | 63                   |           |   | _ | -        |          |   |          |             |          |          |       | 113      |         | ·  | Ĺ       | 匚        |              | Ĺ                |    | 匚      | Ĺ       |         |
| 15       | 14       | •                                      | 7.0            |          | 1  | 1             | 92   | E  |          | L      |  | -  |             | 64                   |           |   |   | Ŀ        | $\Box$   |   |          |             |          |          |       | 114      |         |  | Ĺ       |          | C            |                  |    | $\Box$ |         |         |
|          | 15       |  |                | 10       |    | Ŀ             | Ŀ  |    |          | Ŀ      |  | l  | 匚           | 65                   |           |   |   |          |          |   | ╚        |             |          |          | Ŀ     | 115      |         | <u>.                                    </u> | L       | Ĺ        | Ĺ            |                  | 匚  | Œ      | Ĺ       |         |
|          | 16       |  |                |          |    |               | <u>l</u>   | L  | L        |        |  |    |             | 66                   |           |   |   |          |          |   |          |             |          |          |       | 116      |         |  |         |          |              |                  |    |        |         |         |
| $\Box$   | 3        | Q                                      |                | Ш        |    |               |  | L  |          |        |  |    |             | 67                   |           |   |   |          |          |   |          |             |          |          | L     | 117      |         |  |         |          |              |                  |    |        |         |         |
| $\Box$   | 18       | 2                                      |                |          |    |               |  |    |          |        |  | ]  |             | 68                   |           |   |   |          |          |   |          |             |          |          |       | 118      |         |  |         |          |              |                  |    |        |         |         |
|          | 19       |  |                | ·        |    |               |  |    |          |        |  |    |             | 69                   |           |   |   |          |          |   |          |             | -        | Ш        |       | 119      |         |  |         |          |              |                  |    | $\Box$ |         |         |
|          | 20       |  | ٠.             | ,        |    |               | Γ.   | Γ  | Π        | Π      |  |    |             | 70                   |           |   |   |          |          |   |          |             |          |          |       | 120      | П       |  |         |          |              |                  |    |        |         | П       |
| 12.      | 21       | 1                                      | ,              |          |    | · -           |  |    |          | Г      |  |    | П           | 71                   | ٦         |   |   |          |          |   |          |             |          | $\Box$   |       | 121      |         |  |         | П        |              | П                |    |        |         | $\Box$  |
|          | 22       | ٠,                                     |                |          |    |               |  |    |          | Г      |  |    |             | 72                   |           |   |   |          |          |   |          |             |          |          |       | 122      |         |  |         |          |              |                  |    |        |         | П       |
|          | 23       | -                                      |                |          |    |               |  |    |          | Г      | П  |    |             | 73                   |           |   |   |          |          |   |          |             |          |          |       | 123      | П       |  |         |          |              |                  |    |        |         |         |
| 1        | 24       | ÷                                      |                |          | -  | Т             |  |    |          | Г      |  |    |             | 74                   | ┪         |   |   |          |          |   |          | $\neg$      |          |          |       | 124      | $\neg$  |  |         |          |              | П                |    |        |         |         |
| 7        | 25       | 5                                      |                |          | _  | Г             |  |    | $\vdash$ | Π      |  |    |             | 75                   |           |   |   |          |          |   |          | $\neg$      | П        |          |       | 125      |         |  |         |          |              | $\Box$           |    |        |         |         |
| Γ,       | 26       |  |                |          |    | Г             | Г  | Г  | Г        | Г      |  | ١. |             | 76                   | ヿ         |   |   |          |          |   |          |             |          |          |       | 126      |         | ٦  | П       |          |              |                  |    |        |         | ⅎ       |
|          | 27       |  |                |          |    | $\vdash$      |  |    |          | Г      | Г  | :  |             | 77                   | $\neg$    |   |   |          |          |   |          | T           |          | П        |       | 127      | П       |  |         |          |              |                  |    | $\Box$ | $\Box$  |         |
|          | 28       | <b>,</b> ,                             | *              |          |    |               | П  |    | П        | Г      | П  |    |             | 78                   | ╛         |   |   |          |          |   |          | $\neg$      | $\neg$   |          |       | 128      |         |  |         |          |              |                  |    |        |         | ⊒       |
|          | 29       |  |                |          |    |               |  | П  |          | Г      |  | 1  |             | 79                   | ╗         |   |   |          |          |   |          |             |          |          |       | 129      |         |  |         |          |              |                  |    |        | $\perp$ | ╝       |
| _        | 30       |  |                | П        |    |               | Г  |    | П        | Г      | Г  | :  |             | 80                   |           |   |   |          |          |   | П        | 丁           | $\neg$   |          |       | 130      |         |  |         |          |              |                  |    | 4      | 4       | _       |
| Г        | 31       |  |                | П        |    |               |  |    |          |        |  |    |             | 81                   | 7         |   |   |          |          |   |          | ╗           |          |          |       | 131      |         |  |         | $\Box$   | _            | _                | _  | 4      | 4       | _       |
| 7        | 32       | 7                                      |                |          |    |               | П  |    | i T      | Π      |  |    |             | 82                   | ヿ         |   |   |          |          |   |          | ヿ           | ╗        |          |       | 132      | $\Box$  |  | $\Box$  | $\Box$   | _            | _                | _  | 4      | 4       | _       |
|          | 33       |  |                |          | _  |               |  |    | П        |        |  | 1  |             | 83                   | ٦         |   |   |          |          |   |          | П           |          |          |       | 133      | $\Box$  | $\Box$                                       |         | _        | 4            | 4                | 4  | 4      | 4       | _       |
| Г        | 34       |  | П              | П        |    |               | П  |    | L        |        |  | )  |             | 84                   | $\exists$ |   |   |          |          |   |          | ╛           |          |          |       | 134      | $\Box$  | $\Box$                                       | $\Box$  | $\perp$  | 4            | $\downarrow$     | 4  | 4      | 4       | _       |
|          | 35       |  |                |          |    |               |  |    | $\Box$   | $\Box$ |  | ]  |             | 85                   |           |   |   |          |          |   |          | $\Box$      |          |          |       | 135      |         | _  | _       | _        | 4            | $\dashv$         | 4  | -      | 4       | 4       |
|          | 36       |  |                |          |    |               |  |    |          | L      |  | ]  |             | 86                   |           |   |   |          |          |   |          |             |          |          |       | 136      |         | _  | _       | _        | 4            | 4                | 4  | 4      | 4       | 4       |
|          | 37       |  |                |          |    | _             |  | Γ  |          |        | I  | ]  |             | 87                   |           |   |   |          |          |   |          |             |          |          |       | 137      |         | _  | _       | _        | 4            | 4                | 4  | 4      | 4       | 4       |
| F        | 38       | Г                                      | П              |          | Т  | Γ             | Г  | Г  |          | Ţ.,    |  | 1  |             | 88                   |           |   |   |          |          |   |          |             |          |          |       | 138      |         | $\perp$                                      | ┙       | 4        | 4            | 4                | 4  | -      | 4       | 4       |
|          | 39       | Г                                      | П              | Г        |    |               | Г  |    | Ι.       | Γ      | Ι  | ]  |             | 89                   |           |   |   |          |          |   |          | ┚           |          |          |       | 139      | _       | _  | _       | _        | 4            | +                | 4  | 4      | 4       | 4       |
| 7        | 40       | П                                      |                | Г        | Г  | Г             | П  |    |          | Γ      | Г  | 1  | Г           | 90                   | ٦         |   |   |          |          |   |          | $\neg$      | ٦        |          |       | 140      | $\perp$ |  | $\perp$ | _        | $\downarrow$ | 4                | 4  | 4      | 4       | _       |
| ド        | 41       | Г                                      | Г              | Т        | Г  | Г             | 1  | Г  | T        | Г      |  | i  | Г           | 91                   | $\dashv$  |   |   | П        | П        |   |          | 7           | $\neg$   | П        |       | 141      | J       | J  |         | $\perp$  |              | $\perp$          | 4  | 4      | 1       | _       |
| -        | 42       | $\vdash$                               | <del> </del>   | Ι        | -  | $\vdash$      | <del>                                     </del> | Т  | $\vdash$ | t      | $\vdash$   | i  | $\vdash$    | 92                   | ┪         | ┪ | ٦ | Н        | $\dashv$ | _ | $\Box$   | 7           | ┪        | П        |       | 142      | J       |  |         | $\Box$   | _[           | $\perp$          | 4  | 4      | 4       | _       |
| Ϊ_       | 43       | H                                      | $\vdash$       | $\vdash$ | Ι- | $\vdash$      | t  | ┢  | t        | t      | $\vdash$   | 1  | Т           | 93                   | 7         |   | H | $\dashv$ | $\dashv$ |   | $\vdash$ | _           | ┪        | $\neg$   |       | 143      | $\Box$  |  | $\Box$  | $\perp$  | _            | $\dashv$         | 4  | 4      | 4       | _       |
| $\vdash$ | 44       | -                                      | <del> </del> - | ┢        | Ι- | Η-            | $t^-$  | Η  | T        | T      | T  | 1  | $\vdash$    | 94                   | 7         |   | Н | П        | $\dashv$ |   | T        | 7           | ╗        | $\Box$   | Г     | 144      |         | $\int$                                       | $\perp$ |          | 4            | 4                | 4  | 4      | 4       | 4       |
| $\vdash$ | 45       | -                                      | Ι-             | ┢╌       | ┢  | ┢             | ╁╌   | Н  | 十        | T      | 1  | 1  | Н           | 95                   | $\dashv$  | ᅥ | - | Н        | Н        |   | $\vdash$ | 7           | ┪        | $\Box$   |       | 145      |         |  | $\Box$  | 1        | 4            | 4                | 4  | 4      | 4       | _       |
| $\vdash$ | 46       | $\vdash$                               | $\vdash$       | $\vdash$ | -  | Н             | <del>                                     </del> | ┢  | 1        | 1      | <del>                                     </del> | 1  | Н           | 96                   | $\dashv$  | _ | H | Н        | Н        |   | $\Box$   | ┪           | ᅥ        | $\Box$   |       | 146      | $\Box$  |  | $\Box$  | ᅪ        | 4            | 4                | -4 | 4      | 4       | 4       |
| $\vdash$ | 47       | -                                      | $\vdash$       | -        | H  | $\vdash$      | +-   | Н  | 1        | ✝      | $\vdash$   | 1  | -           | 97                   | $\dashv$  | - | H |          | Н        | _ | Н        | $\dashv$    | 7        |          |       | 147      | $\Box$  | $ oldsymbol{ } oldsymbol{ } oldsymbol{ }$    |         | ┙        | 4            | 4                | _ļ | 4      | 4       | _       |
| $\vdash$ | 48       | ┝                                      | ╌              | $\vdash$ | ⊢  | -             | t  | ╁  | 1        | +      | 1  | 1  |             | 98                   | -         | - | - |          | Н        |   | Н        | $\dashv$    | -        | $\vdash$ |       | 148      |         | I  | I       | 1        | 4            | 4                | 4  | 4      | 4       | _       |
| -        | 49       | $\vdash$                               | $\vdash$       | $\vdash$ | -  | ┢             | $\vdash$   | ╁  | t        | t      | $\vdash$   | 1  | $\vdash$    | 99                   | _         | - | Н |          | Н        |   | $\vdash$ | _           | $\dashv$ | $\neg$   |       | 149      | $\Box$  |  |         | 4        | 4            | <del>-  </del> - | 4  | 4      | +       | !       |
| $\vdash$ | 50       | -                                      | ╌              | ├-       | ⊢  | +-            | H  | ┢  | +        | ╁      | +-   | 1  | $\vdash$    | 100                  | -         | - | - |          | Н        | - | Н        | ┪           | ┪        |          |       | 150      | $\Box$  | $\Box$                                       | _1      | _        | ┵            | !_               | _! | _!_    | !-      | _'      |
|          | 120      | ــــــــــــــــــــــــــــــــــــــ | <u> </u>       |          | _  |               | _  | ٠. | _        |        |  | J  | _           |                      |           |   |   | -        |          |   | لب       | <del></del> | _        |          | _     |          |         |  |         |          |              |                  |    |        |         |         |

If more than 150 claims or 10 actions staple additional sheet here

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